

## CLAIMS

What is claimed is:

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1. A sensing apparatus comprising  
a cable having a first end and a second end;  
a connector residing at the first end of the cable; and  
a sensor module residing at the second end of the cable.
2. A sensing apparatus according to Claim 1, wherein the cable, the connector and the sensor module are unidiametrical.
3. A sensing apparatus according to Claim 1, wherein the cable comprises  
a core;  
a conductive element wrapped around the core; and  
a first tubing covering the core and the conductive element;
4. A sensing apparatus according to Claim 3, wherein the core is polyester.
5. A sensing apparatus according to Claim 3, wherein the conductive element is a ribbon cable.
6. A sensing apparatus according to Claim 3, wherein the conductive element includes wires.
7. A sensing apparatus according to Claim 6, wherein the wires are welded to the connector and the sensor module.
8. A sensing apparatus according to Claim 6, wherein the wires are crimped to the connector.

9. A sensing apparatus according to Claim 6, wherein the wires are platinum.

10. A sensing apparatus according to Claim 3, wherein the first tubing is radio opaque.

11. A sensing apparatus according to Claim 3, further comprising a second tubing covering the first tubing.

12. A sensing apparatus according to Claim 11, wherein a window is cut into the second tubing.

13. A sensing apparatus according to Claim 1, wherein the sensor module comprises a first end and a second end.

14. A sensing apparatus according to Claim 13, wherein beads encapsulate the first end and the second end.

15. A sensing apparatus according to Claim 14, wherein the sensor module further comprises a spacing element.

16. A sensing apparatus according to Claim 15, wherein a height of the spacing element is greater than a height of the beads.

17. A sensing apparatus according to Claim 1, further comprising an enzyme within the sensor module.

18. A sensing apparatus according to Claim 17, wherein the enzyme is glucose oxidase.

19. A sensing apparatus according to Claim 17, wherein the enzyme is human serum albumin.

20. A sensing apparatus according to Claim 17, wherein the enzyme is a protein matrix.
21. A method of making a sensing apparatus comprising
  - obtaining a connector;
  - obtaining a cable;
  - obtaining a sensor module;
  - attaching a first end of the cable to the connector; and
  - attaching a second end of the cable to the sensor module.
22. A method according to Claim 21, further comprising
  - forming beads over ends of the sensor module;
  - inserting a spacing element between the beads;
  - covering the sensor module with a tubing of the cable;
  - cutting a window in the tubing of the cable; and
  - inserting an enzyme in the sensor module.
23. A method according to Claim 22, wherein the enzyme is hydrated.

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